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Abstract

The invention relates to an extrusion head with a mixing device and an adjustable shear effect, said extrusion head being suitable for homogenising, mixing and shearing the material conveyed to it in form of polyester melts, elastomers and other miscible viscous and paste materials. The material supplied flows around the toothed wheel (2) and fills its tooth gaps and those of the toothed wheel (1, 6). The material is taken back in the outer region of toothed wheel (1, 6) by the rotary movement, is axially crushed out by toothed wheel (2) and conveyed into the outlet channel through the groove in toothed wheel (2). The mixing, homogenisation and shearing of the material can be adjusted by the drive of toothed wheel (1), thus making it possible to obtain a high outlet temperature with elastomers. The extrusion head (4) including the toothed wheels (1, 2 and 6) may be fitted with a temperature equaliser if required.

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